

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4650	(anncv) or (artificial adj2 neural adj2 network)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 16:53
L2	117571	(unbalance or un-balance or imbalance or im-balance)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 16:53
L3	183	L1 and L2	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 16:53
L4	265	(706/23).CCLS.	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/11/12 16:53
L5	501	(73/66).CCLS.	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/11/12 16:53

## EAST Search History

L6	223	(700/280).CCLS.	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53
L7	223	(700/279).CCLS.	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53
L8	112	L3 and @ad<"20031230"	US-PGPU B; USPAT; USOCR	OR	OFF	2007/11/12 16:53
L9	919	L4 L6 L7 L5	US-PGPU B; USPAT; USOCR	OR	OFF	2007/11/12 16:53
L10	612	L9 and @ad<"20031230"	US-PGPU B; USPAT; USOCR	OR	OFF	2007/11/12 16:53
L11	4650	(anncv) or (artificial adj2 neural adj2 network)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/11/12 16:53
L12	117571	(unbalance or un-balance or imbalance or im-balance)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/11/12 16:53

## EAST Search History

L13	183	L11 and L12	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/11/12 16:53
L14	112	L13 and @ad<"20031230"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53
L15	265	(706/23).CCLS.	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53
L16	501	(73/66).CCLS.	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53
L17	223	(700/280).CCLS.	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53

## EAST Search History

L18	223	(700/279).CCLS.	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53
L19	1187	L15 L17 L18 L16	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53
L20	880	L19 and @ad<"20031230"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53
L21	73	L20 and ((anncv) or (artificial adj2 neural adj2 network))	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/11/12 16:53
L22	0	L16 and ((anncv) or (artificial adj2 neural adj2 network))	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53

## EAST Search History

L23	0	L16 and ((anncv) or (neural adj2 network))	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53
L24	41667	(balance or unbalance or imbalance).ti.	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53
L25	3	L24 and ((anncv) or (artificial adj2 neural adj2 network))	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 17:40
L26	46	L24 and ((anncv) or (artificial adj2 neural adj2 network) or (fuzzy))	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	OFF	2007/11/12 16:53
L27	24	((anncv) or (artificial adj2 neural adj2 network) or (neural adj network)) same (balance or unbalance or imbalance or balancing or unbalancing or imbalancing or unbalanced or balanced or imbalanced) same (vibrating or vibrated or vibration or vibrate)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/11/12 16:53

## EAST Search History

L28	6	((anncv) or (artificial adj2 neural adj2 network) or (neural adj network)) with (balance or unbalance or imbalance or balancing or unbalancing or imbalancing or unbalanced or balanced or imbalanced) with (vibrating or vibrated or vibration or vibrate)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 16:53
L29	6	((anncv) or (artificial adj2 neural adj2 network) or (neural adj network)) near20 (balance or unbalance or imbalance or balancing or unbalancing or imbalancing or unbalanced or balanced or imbalanced) near20 (vibrating or vibrated or vibration or vibrate)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 16:53
L30	6	((anncv) or (artificial adj2 neural adj2 network) or (neural adj network)) near50 (balance or unbalance or imbalance or balancing or unbalancing or imbalancing or unbalanced or balanced or imbalanced) near50 (vibrating or vibrated or vibration or vibrate)	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 16:53
L31	1430	L3 L4 L6 L7 L5 L10 L8 L14 L13 L18 L15 L23 L16 L25 L22 L17 L21 L26 L30 L29 L28 L27	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/12 16:57

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L35	58	(US-20070255334-\$ or US-20070250196-\$ or US-20070239641-\$ or US-20070233325-\$ or US-20070233324-\$ or US-20070228703-\$ or US-20070227246-\$ or US-20070205881-\$ or US-20070203862-\$ or US-20070196867-\$ or US-20070186651-\$ or US-20070185620-\$ or US-20070179661-\$ or US-20070168085-\$ or US-20070162404-\$ or US-20070157711-\$ or US-20070156320-\$ or US-20070156312-\$ or US-20070156289-\$ or US-20070154931-\$ or US-20070139216-\$ or US-20070131027-\$ or US-20070129948-\$ or US-20070126561-\$ or US-20070124090-\$ or US-20070119263-\$).did. or (US-20070118399-\$ or US-20070117144-\$ or US-20070112469-\$ or US-20070096565-\$ or US-20070095122-\$ or US-20070089495-\$ or US-20070087756-\$).did. or (US-7284769-\$ or US-7278215-\$ or US-7275422-\$ or US-7272513-\$ or US-7270007-\$ or US-7269253-\$ or US-7267029-\$ or US-7260156-\$ or US-7252000-\$ or US-7251638-\$ or US-7249470-\$ or US-7243023-\$ or US-7236855-\$ or US-7234350-\$ or US-7233936-\$ or US-7233935-\$ or US-7224807-\$ or	US-PGPU B; USPAT	OR	ON	2007/11/12 17:10
11/12/2007 5:42:24 PM	C:\Documents and Settings\sshaht2\My Documents\EAST\Workspaces\10750294 (methods and systems for analyzing engine unbalan	US-7221988-\$ or US-7219087-\$ or			Page 7	

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L36	6	35 and @ad<"20031230"	US-PGPU B; USPAT; USOCR; FPRS; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2007/11/12 17:11
L37	1	analyzing engine unbalance condition receiving vibrational data plurality locations distributed over engine surrounding support structure inputting vibrational data artificial neural network control volume neural network inverse model establishing relationship between vibrational data plurality locations unbalance condition outputting diagnostic information diagnostic information indicating unbalance magnitude angular location function rotational frequency engine	US-PGPU B	AND	ON	2007/11/12 17:42